AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) An information processing apparatus <u>as a first computer in a system including a plurality of computers each connected to a network, a second computer executing a directory service program, the directory service including a remote reference representing a network address of each of the plurality of computers</u>, comprising:

a program processing unit configured to execute a <u>server</u> program described as an object-oriented language executed by a platform-independent machine language;

a monitor unit configured to monitor a change of a network address of the ~~information processing apparatus~~ <u>first computer</u>; [[and]]

a ~~reference provision~~ <u>network address acquisition</u> unit configured to ~~provide~~ <u>acquire</u> a new network address of the ~~information processing apparatus for another information processing apparatus~~ <u>first computer</u> when said monitor unit detects the change of the network address of the ~~information processing apparatus~~ <u>first computer; and</u>

<u>a remote reference control unit configured to update the network address of the remote reference in the second computer by using the new network address.</u>

2. (Currently Amended) The information processing apparatus according to claim 1,

~~further comprising:~~

~~a remote reference control unit configured to create a remote reference representing a location address of a server object when the server object is generated in the information processing apparatus, the remote reference including a network address and a port number of the information processing apparatus~~ wherein said remote reference control unit creates a remote reference of the first computer when a server object is generated in the first computer, the remote reference including the network address and a port number of the first computer.

3. (Currently Amended) The information processing apparatus according to claim 2,

wherein said ~~provision~~ remote reference control unit registers the remote reference in [[a]] the directory service program [[in]] of the ~~other information processing apparatus connected to a network~~ second computer, ~~another information processing apparatus~~ a third computer referring to the remote reference of the second computer through the network to access the server object.

4. (Currently Amended) The information processing apparatus according to claim 3,

[[when]] wherein said monitor unit ~~detects the change of the network address of the information processing apparatus~~ decides whether the network address of the first computer is changed by referring to an OS of the first computer; and

wherein said ~~remote reference control unit updates the remote reference by using the new network address, and~~

~~wherein said provision unit newly registers the updated remote reference in the dictionary service program~~ network address acquisition unit acquires the new network address of the first computer from the OS when said monitor unit decides that the network address of the first computer is changed. .

5. (Currently Amended) The information processing apparatus according to claim [[1]] 3,

further comprising:

a ~~memory~~ HTTP server configured to store a stub class [[file]] describing a procedure necessary for ~~another information processing apparatus~~ the third computer to process ~~a received~~ the server object received from the ~~information processing apparatus~~ first computer; and a class loader configured to store a location address of the stub class in a codebase.

6. (Currently Amended) The information processing apparatus according to claim 5,

~~wherein said remote reference control unit includes a management unit configured to manage a location address of the class file~~ when said monitor unit detects the change of the network address of the first computer,

wherein said class loader updates the location address of the codebase by using the new network address.

7. (Currently Amended) The information processing apparatus according to claim 6,

~~when said monitor unit detects the change of the network address of the information processing apparatus,~~

~~wherein said remote reference control unit updates the codebase by using the new network address~~ wherein said remote reference control unit registers a stub object in the directory service program of the second computer, the stub object including the remote reference and the codebase.

8. (Currently Amended) The information processing apparatus according to claim 7,

wherein said ~~memory~~ HTTP server stores a plurality of classes including the stub class [[file]], and ~~further comprising~~:

[[a]] wherein said class loader ~~configured to store~~ stores a location address of each of the plurality of classes in the codebase[[,]]

~~when said monitor unit detects the change of the network address of the~~ ~~information processing apparatus,~~

~~wherein said class loader updates the location address in the local~~ ~~codebase by using the new network address~~.

9. (Currently Amended) The information processing apparatus according to claim [[1]] 3,

wherein the ~~information processing apparatus~~ first computer is a service terminal executing [[a]] the server program to provide [[the]] a service in response to a request from ~~another information processing apparatus~~ the third computer as a client's terminal.

10. (Currently Amended) ~~A method in an~~ An information processing ~~apparatus~~ method of a first computer in a system including a plurality of computers each connected to a network, a second computer executing a directory service program, the directory service including a remote reference representing a network address of each of the plurality of computers, comprising:

executing a server program described as an object-oriented language executed by a platform-independent machine language;

monitoring a change of a network address of the ~~information processing~~ ~~apparatus~~ first computer; [[and]]

~~providing~~ acquiring a new network address of the ~~information processing~~ ~~apparatus for another information processing apparatus~~ first computer when the change

of the network address of the ~~information processing apparatus~~ <u>first computer</u> is

detected<u>; and</u>

<u>updating the network address of the remote reference in the second</u>

<u>computer by using the new network address</u>.

11. (Currently Amended) The information processing method according

to claim 10,

further comprising:

~~creating a remote reference representing a location address of a server~~

~~object when the server object is generated in the information processing apparatus, the~~

~~remote reference including a network address and a port number of the information~~

~~processing apparatus~~ <u>creating a remote reference of the first computer when a server</u>

<u>object is generated in the first computer, the remote reference including the network</u>

<u>address and a port number of the first computer</u>.

12. (Currently Amended) The information processing method according

to claim 11,

further comprising:

registering the remote reference in [[a]] <u>the</u> directory service program [[in]]

<u>of</u> the ~~other information processing apparatus connected to a network~~ <u>second computer</u>,

~~another information processing apparatus~~ <u>third computer</u> referring to the remote

reference <u>of the second computer</u> through the network to access the server object.

13. (Currently Amended) The information processing method according to claim 12,

further comprising:

~~when the change of the network address of the information processing apparatus is detected~~ deciding whether the network address of the first computer is changed by referring to an OS of the first computer; and

~~updating the remote reference by using the new network address, and registering the updated remote reference in the dictionary service program~~ acquiring the new network address of the first computer from the OS when the network address of the first computer is decided to be changed. .

14. (Currently Amended) The information processing method according to claim 10,

further comprising:

storing a stub class [[file]] describing a procedure necessary for ~~another information processing apparatus~~ the third computer to process ~~a received~~ the server object received from the ~~information processing apparatus~~ first computer; and

storing a location address of the stub class in a codebase.

15. (Currently Amended) The information processing method according to claim 14,

further comprising:

~~managing a location address of the class file~~ when the change of the network address of the first computer is detected,

updating the location address of the.codebase by using the new network address.

16. (Currently Amended) The information processing method according to claim 15,

further comprising:

~~when the change of the network address of the information processing apparatus is detected,~~

~~updating the codebase by using the new network address~~ registering a stub object in the directory service program of the second computer, the stub object including the remote reference and the codebase.

17. (Currently Amended) The information processing method according to claim 16,

further comprising:

storing a plurality of classes including the stub class [[file]], and

storing a location address of each of the plurality of classes in the codebase[[, and]]

~~when the change of the network address of the information processing apparatus is detected,~~

~~updating the location address in the local codebase by using the new network address~~.

18. (Currently Amended) The information processing method according to claim [[10]] 12,

wherein the ~~information processing apparatus~~ first computer is a service terminal executing [[a]] the server program to provide [[the]] a service in response to a request from ~~another information processing apparatus~~ the third computer as a client's terminal.

19. (Currently Amended) A computer program product, comprising

a computer readable program code embodied in said product for causing a first computer in a system including a plurality of computers each connected to a network, a second computer executing a directory service program, the directory service including a remote reference representing a network address of each of the plurality of computers ~~an information processing apparatus~~, said computer readable program code having :

a first program code to execute a server program described as an object-oriented language executed by a platform-independent machine language;

a second program code to monitor a change of a network address of the ~~information processing apparatus~~ first computer; [[and]]

a third program code to ~~provide~~ acquire a new network address of the ~~information processing apparatus for another information processing apparatus~~ first computer when the change of the network address of the ~~information processing apparatus~~ first computer is detected; and

a fourth program code to update the network address of the remote reference in the second computer by using the new network address.